

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): An image processor for printing, comprising:
 - an expander for expanding supplied compressed image data every color in a first or second color space;
 - an expanded image memory for storing expanded image data in said first or second color space expanded by said expander;
 - image data supply means for reading said expanded image data from said expanded image memory, thereby (i) converting said read data to expanded image data in second color space if said read data is expanded image data in said first color space and (ii) not converting said read data if said read data is expanded image data in said second color space; and
 - a print engine for receiving said expanded image data in said second color space from said image data supply means to thereby print with toner in said second color space,

wherein said image data supply means is controlled so as to be synchronized with the print engine.
2. (previously presented): An image processor for printing according to claim 1, wherein said expanded image memory has capacity enough to store expanded image data of at least four number of colors in said first color space, and

said image data supply means reads expanded image data in said first color space from said expanded image memory in parallel and converts the read image data to expanded image data in said second color space.

3. (currently amended): An image processor for printing according to claim 1, further comprising a reading buffer for expansion for reading said expanded image data from said expanded image memory and supplying it to said expander.

4. (currently amended): An image processor for printing according to claim 3, wherein said expanded image memory has capacity enough to store expanded image data of at least ~~for~~ four number of colors in said first color space, and

said reading buffer for expansion supplies the expanded image data of a corresponding color to said expander from said expanded image memory when said expander expands compressed image data in said first color space.

5. (original): An image processor for printing according to anyone of claims 1 to 3, wherein image data in said first color space includes the image data of at least red (R), green (G) and blue (B), and image data in said second color space includes the image data of at least cyan (C), magenta (M), yellow (Y) and black (K).

6. (original): An image processor for printing according to claim 1, wherein image data in said first color space includes four types of data having the image data of at least red (R), green (G) and blue (B) and color conversion attribute data (X), image data in said second color space includes four types of data of at least cyan (C), magenta (M), yellow (Y) and black (K), said expanded image memory includes first and second expanded image memories respectively having capacity enough to store at least four data, and

said image data supply means (i) reads expanded image data in said first color space from said first and second expanded image memories in parallel, converts it to expanded image data in said second color space if said expanded image data is in said first color space, or (ii) suitably reads expanded image data corresponding to predetermined color from said first and second expanded image memories if said expanded image data is in said second color space.

7. (original): An image processor for printing according to claim 1, wherein said print engine complies with a tandem system for printing the image data of plural colors in parallel, said expanded image memory has capacity enough to store expanded image data corresponding to plural colors, and

said image data supply means (i) reads expanded image data in said first color space from said expanded image memory in parallel, converts it to expanded image data in said second color space and supplies it to said print engine, or (ii)

supplies expanded image data in said second color space read from said expanded image memory and corresponding to said plural colors to said print engine in parallel.

8. (currently amended): An image processor for printing, comprising:

an expander for expanding supplied compressed image data every color in a first or second color space;

an expanded image data memory having capacity enough to store expanded image data of at least four number of colors in said first color space, and for storing expanded image data in said first or second color space expanded by said expander;

image data supply means for reading said expanded image data from said expanded image memory, thereby

(i) converting said read data to expanded image data in second color space if said read data is expanded image data in said first color space and (ii) not converting said read data if said read data is expanded image data in said second color space; and

a print engine for receiving said expanded image data in said second color space from said image data supply means to thereby print with toner in said second color space,

wherein said image data supply means is controlled so as to be synchronized with the print engine.

9. (previously presented): An image processor for printing according to claim 8, wherein said image data supply means reads expanded image data of at least four number of colors in said first color space from said expanded image memory in parallel and converts it to expanded image data in said second color space.

10. (previously presented): An image processor for printing according to claim 1, wherein said print engine complies with a tandem system for printing the image data of plural colors in parallel, and said image data supply means (i) reads expanded image data in said first color space from said expanded image memory in parallel, converts the read image data to expanded image data in said second color space and supplies it to said print engine, or (ii)

supplies expanded image data in said second color space read from said expanded image memory and corresponding to said plural colors to said print engine in parallel.

11. (currently amended): An image processor for printing, comprising:

an expander for expanding supplied compressed image data every color in a first or second color space;

plural expanding units respectively having an expanded image memory for storing expanded image data in said first or second color space expanded by said expander and corresponding to at least four number of colors in said first color space;

image data supply means for reading said expanded image data from said expanded image memory, thereby (i) converting said read data to expanded image data in second color space if said read data is expanded image data in said first color space and (ii) not converting said read data if said read data is expanded image data in said second color space; and

a print engine for receiving said expanded image data in said second color space from said image data supply means to thereby print with toner in said second color space,

wherein said image data supply means is controlled so as to be synchronized with the print engine.

12. (original): An image processor for printing according to claim 11, wherein said plural expanding units expand compressed image data every color in said first color space in parallel if said compressed image data corresponds to said first color space, and

said image data supply means reads expanded image data in said first color space from said expanded image memory in parallel and converts it to expanded image data in said second color space.

13. (original): An image processor for printing according to any one of claims 11 and 12, further comprising a compressed image memory provided before said expanding unit for storing compressed image data in said first color space every color is provided, and

compressed image data in said first color space stored in said compressed image memory is supplied to a respective corresponding expanding unit in parallel.

14. (previously presented): An image processor for printing according to claim 11, wherein said print engine complies with a tandem system for printing the image data of plural colors in parallel,

and said image data supply means (i) reads expanded image data in said first color space from said expanded image memory in parallel, converts the read image data to expanded image data in said second color space and supplies it to said print engine, or (ii) supplies expanded image data in said second color space read from said expanded image memory and corresponding to said plural colors to said print engine in parallel.